

Course Syllabus

[Jump to Today](#)

ESC1000 Introduction to Earth Science (Online)

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Please read the Canvas announcements I send. You should have them automatically sent to your email.

Textbook: *Earth Science by Marshak & Rauber* All students are required to purchase access to the online system in order to complete some of the graded activities, termed Smartwork5 in this system. These activities are discussed in detail below. This course is part of the UF All Access program, which means that you need to opt-in and the cost of the materials will be charged to your UF student account. Required course materials include the e-book and Smartwork5 for a cost of ~\$64. To opt-in use the following link.

<https://www.bsd.ufl.edu/G1CO/IPay1f/start.aspx?TASK=INCLUDED> (Links to an external site.)[Links to an external site.](#)

You all have access to the textbook right now, but you will need to opt-in by January 20th - after that your access to the ebook and Smartwork will be terminated!!

[Click here to access the eBook](#) (also accessible through the Modules link) Note that you can store parts of the eText in cache. This is useful if you are going to be away from internet, but you want to read while away. To do this, open the eText and click on a Chapter/Section, click on the three bars at top left. Toward the bottom in the left column click the "offline reading" option in black and check the sections you want to store.

Course goals Earth is dynamic planet that is continually being reshaped by forces generated within the Earth's interior and by processes operating in both the oceans and atmosphere. In this course we will explore the fundamental processes that occur within each of these domains as well as the interactions between them.

Communications Please contact me through regular email (NOT Canvas email please) as it is much easier to keep track of our conversations. Please indicate in your email that you are in the online class. Throughout the semester, I will provide information to you through Canvas announcements. Be sure that you check announcements regularly and set up Canvas to have announcements delivered to you as emails as well. You should also take advantage of the

Discussions link here on Canvas. This provides a simple way of communicating with other students in the class. It is particularly useful when looking for information, or providing information to your fellow students that may not be an explicit part of instructions/syllabus (e.g., issues regarding technology, programs/browsers that you find useful, your experiences in best practices, discussions on course content, etc.).

Graded Activities (Goals and logistics of each of the activities are discussed below)

Learning/Reading activities (one due every Monday) - completed through Smartwork **25% of total grade** (*Lowest grade dropped*)

Quizzes (one due every Monday) - completed through Smartwork **25% of total grade** (*Lowest grade dropped*)

Assignments (5 total) - available through, and submitted in Canvas **50% total**

Total = 100%

There will be an extra credit opportunity worth up to 2% points on your final grade toward the end of the semester. This will provide you with a chance to make up points lost by missing an activity or to simply get extra credit.

****Note:** if you missed assignments then your overall grade showing in Canvas may not reflect your actual grade.

Policies for late and missed work The following is a list of penalties for late submissions. Exceptions to these policies will only be provided with fully documented excuses.

Learning/Reading activities & Quizzes: 30% score reduction for each day late (no submissions accepted after 48 hours)

Assignments: 50% score reduction for each day late (no submissions accepted after 24 hours)

*********Any technology issues encountered during online activities must be documented with screenshots of error messages, etc.*********

Descriptions of the different types of graded activities

Learning/Reading activities (Smartwork) The Chapters covered for each of these activities is in the name of the assignment and, if only specific sections are covered it is shown in the

description within Smartwork. You should read the appropriate sections in the textbook before beginning these activities. In these activities you will answer basic questions on the material from your reading. These are commonly in the form of labeling, sorting, multiple choice, etc. and some are associated with short video clip explanations. Other than having a due date/time, these activities are not timed. You have three attempts to answer the questions correctly, thus it is expected that you will receive close to 20/20 points for each of these as long as you complete them on time. *i.e., these are easy points (there is no reason to not get near 100%) if you do the basic reading and complete them on time and they are worth ~25% of your grade so do not miss out on this opportunity!* There is one of these activities due every Monday. It is expected that you complete these activities before taking the quizzes. Note that you can open and close the L/R activities as many times as you like before the due date and your work will be saved. Once you open the L/R activity, a grade for the activity will appear in Canvas - this grade will continue to increase as you complete more of the activity.

Quizzes (Smartwork) Quizzes consist of 15-25 multiple choice questions that cover the material from the book and on the Learning/Reading activities. The quizzes are timed and you will have around one minute per question. Thus, there is time to look up a couple of questions, but not enough to expect to look up most of the material. You should complete the reading and Learning/Reading activities before starting the quizzes. There is one of these activities due every Monday at the same time as the Learning/Reading activity. ****Be sure that you have a secure internet connection before beginning the quizzes**** *Once you begin a quiz, you cannot stop the clock from running (even if you hit the "save and exit" button), so be sure that you have the time to complete the quiz before beginning it.*

Assignments - In contrast to the the quizzes and learning/reading activities, which emphasis basic recall and understanding, the assignments will require you to apply the concepts, analyze data, perform calculations, and/or explain concepts with the aid of sketches. Thus, these require more advanced thinking than the Smartwork material. Therefore, the points from the assignments are not as easily earned as in those activities. Not every chapter/module has an assignment - there will be six assignments scattered throughout the semester. The assignments will be available through the *Assignments* link here on Canvas and related materials will also be dispersed through that link and/or attached to Canvas announcements. Details for the Assignments will be provided in the next couple of weeks.

Lecture Videos - Below are links to videos that may be helpful for the first third of the course

[Formation of the Solar System and early Earth \(Links to an external site.\)](#)[Links to an external site.](#) (Chapter 1)

[Plate Tectonics i : Overview \(Links to an external site.\)](#)[Links to an external site.](#)

[Plate Tectonics ii : Divergent Boundaries, mid-ocean ridges, age of the seafloor \(Links to an external site.\)Links to an external site.](#)

[Plate Tectonics iii : Accretion, Mountain Building, and Florida \(Links to an external site.\)Links to an external site.](#)

[Plate Tectonics iv : Transform Boundaries \(Links to an external site.\)Links to an external site.](#)

[Plate Tectonics v : Paleomagnetism, magnetic anomalies, magnetic inclination \(Links to an external site.\)Links to an external site.](#)

[Plate Tectonics vi : Isostasy \(Links to an external site.\)Links to an external site.](#)

[Earthquakes i : Demonstration of Elastic Rebound Theory \(Links to an external site.\)Links to an external site.](#)

[Earthquakes ii : Earthquake Patterns at Subduction Zones \(Links to an external site.\)Links to an external site.](#)

[Volcanic eruptions: What controls the explosiveness of volcanic eruptions? \(Links to an external site.\)Links to an external site.](#)

Letter-grade assignment:

A	90 - 100%
A-	88 - 90
B+	85 - 88
B	80 - 85
B-	78-80
C+	75 - 78
C	70 - 75
C-	68 -70
D+	65 - 68
D	60 - 65

NOTE: If you fall on a boundary (e.g., 80%), you will receive the higher grade (e.g., 80% = B)

Because the minimum number for each grade range is lower than normal, there is no rounding at the end.

Course Evaluations

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/> (Links to an external site.). Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/> (Links to an external site.). Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/> (Links to an external site.).

Course Summary:

Date	Details
Sun Dec 8, 2019	Assignment Smartwork5: Extra Credit Quiz - Chapter 22 due by 11:59pm
Mon Jan 13, 2020	Assignment Smartwork5: (1) Learning/Reading activity - Prelude & Chapter 1 due by 11:59pm
	Assignment Smartwork5: (1) Quiz - Prelude & Chapter 1 due by 11:59pm
Mon Jan 20, 2020	Assignment Smartwork5: (2) Learning/Reading Activity - Chapter 2 Plate Tectonics due by 11:59pm
	Assignment Smartwork5: (2) Quiz - Chapter 2 Plate Tectonics due by 11:59pm
Mon Jan 27, 2020	Assignment Smartwork5: (3) Learning/Reading activity Chapter 7 Mountain Building and Geologic Structures due by 11:59pm
	Assignment Smartwork5: (3) Quiz 3 Chapter 7 - Mountain Building and Geologic Structures due by 11:59pm
Mon Feb 3, 2020	Assignment Smartwork5: (4) Learning/Reading Activity - Chapter 8: Earthquakes due by 11:59pm
	Assignment Smartwork5: (4) Quiz - Ch. 8 - Earthquakes due by 11:59pm

Date	Details	
Mon Feb 10, 2020	Assignment Smartwork5: (5) Learning/Reading Activity - Chapter 3: Minerals	due by 11:59pm
	Assignment Smartwork5: (5) Quiz - Chapter 3: Minerals	due by 11:59pm
Mon Feb 17, 2020	Assignment Smartwork5: (6) Learning/Reading Activity - Chapter 4: Volcanism & Igneous Rocks	due by 11:59pm
	Assignment Smartwork5: (6) Quiz - Chapter 4: Volcanism & Igneous Rocks	due by 11:59pm
Mon Feb 24, 2020	Assignment Smartwork5: (7) Learning/Reading Activities - Chapter 5: Sedimentary Rocks	due by 11:59pm
	Assignment Smartwork5: (7) Quiz - Chapter 5 Sedimentary Rocks	due by 11:59pm
Mon Mar 9, 2020	Assignment Smartwork5: (8) Learning/Reading - Chapter 9: Geologic Time and Dating	due by 11:59pm
	Assignment Smartwork5: (8) Quiz - Chapter 9: Geologic Time and Dating	due by 11:59pm
Mon Mar 16, 2020	Assignment Smartwork5: (9) Learning/Reading activity - Chapter 11: Energy & Mineral Resources	due by 11:59pm
	Assignment Smartwork5: (9) Quiz - Chapter 11: Energy & Mineral Resources	due by 11:59pm
Mon Mar 23, 2020	Assignment Smartwork5: (10) Learning/Reading Activity - Chapters 12 & 13: Groundwater	due by 11:59pm
	Assignment Smartwork5: (10) Quiz - Chapters 12 & 13: Groundwater	due by 11:59pm
Mon Mar 30, 2020	Assignment Smartwork5: (11) Learning/Reading Activity - Chapter 15: Oceans I	due by 11:59pm
	Assignment Smartwork5: (11) Quiz - Chapter 15: Oceans I	due by 11:59pm
Mon Apr 6, 2020	Assignment Smartwork5: (12) Learning/Reading Activity - Chapter 16: Oceans II	due by 11:59pm
	Assignment Smartwork5: (12) Quiz - Chapter 16: Oceans II	due by 11:59pm
Mon Apr 13, 2020	Assignment Smartwork5: (13) LearningReading Activity - Chapter 17: Atmosphere	due by 11:59pm
	Assignment Smartwork5: (13) Quiz - Chapter 17: Atmosphere	due by 11:59pm
Mon Apr 20, 2020	Assignment Smartwork5: (14) Learning/Reading activity - Chapter 20: Climate & Climate Change	due by 11:59pm

Date**Details**

Assignment	Smartwork5: (14) Quiz - Chapter 20: Climate & Climate Change	due by 11:59pm
Assignment	Assignment 1 : Plate Tectonics	
Assignment	Assignment 2 : Earthquakes & Dating	
Assignment	Assignment 3 : Multiple Concepts TBA	
Assignment	Assignment 4 : Multiple Concepts TBA	
Assignment	Assignment 5 : Geology of Florida	
Assignment	Guided Learning Explorations in Earth Science: Fall 2019 Beta Tests: Climate Change	
Assignment	Guided Learning Explorations in Earth Science: Fall 2019 Beta Tests: Coastal Processes and Hurricanes	
Assignment	Guided Learning Explorations in Earth Science: Fall 2019 Beta Tests: Earthquakes	
Assignment	Guided Learning Explorations in Earth Science: Fall 2019 Beta Tests: Groundwater	
Assignment	Guided Learning Explorations in Earth Science: Fall 2019 Beta Tests: Oceans	
Assignment	Guided Learning Explorations in Earth Science: Fall 2019 Beta Tests: Plate Tectonics	
Assignment	Guided Learning Explorations in Earth Science: Fall 2019 Beta Tests: Relative and Numerical Dating	